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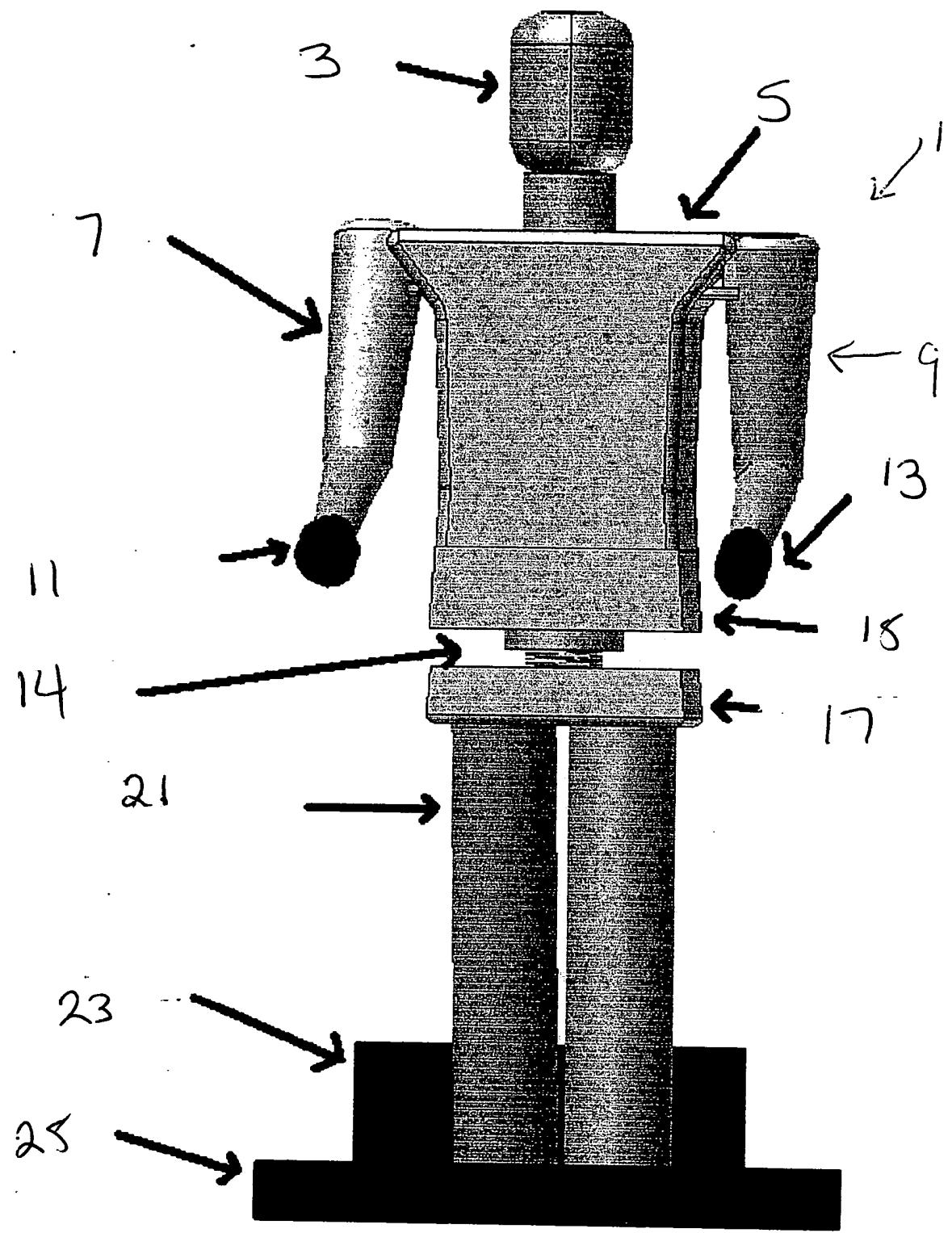


FIGURE 1A

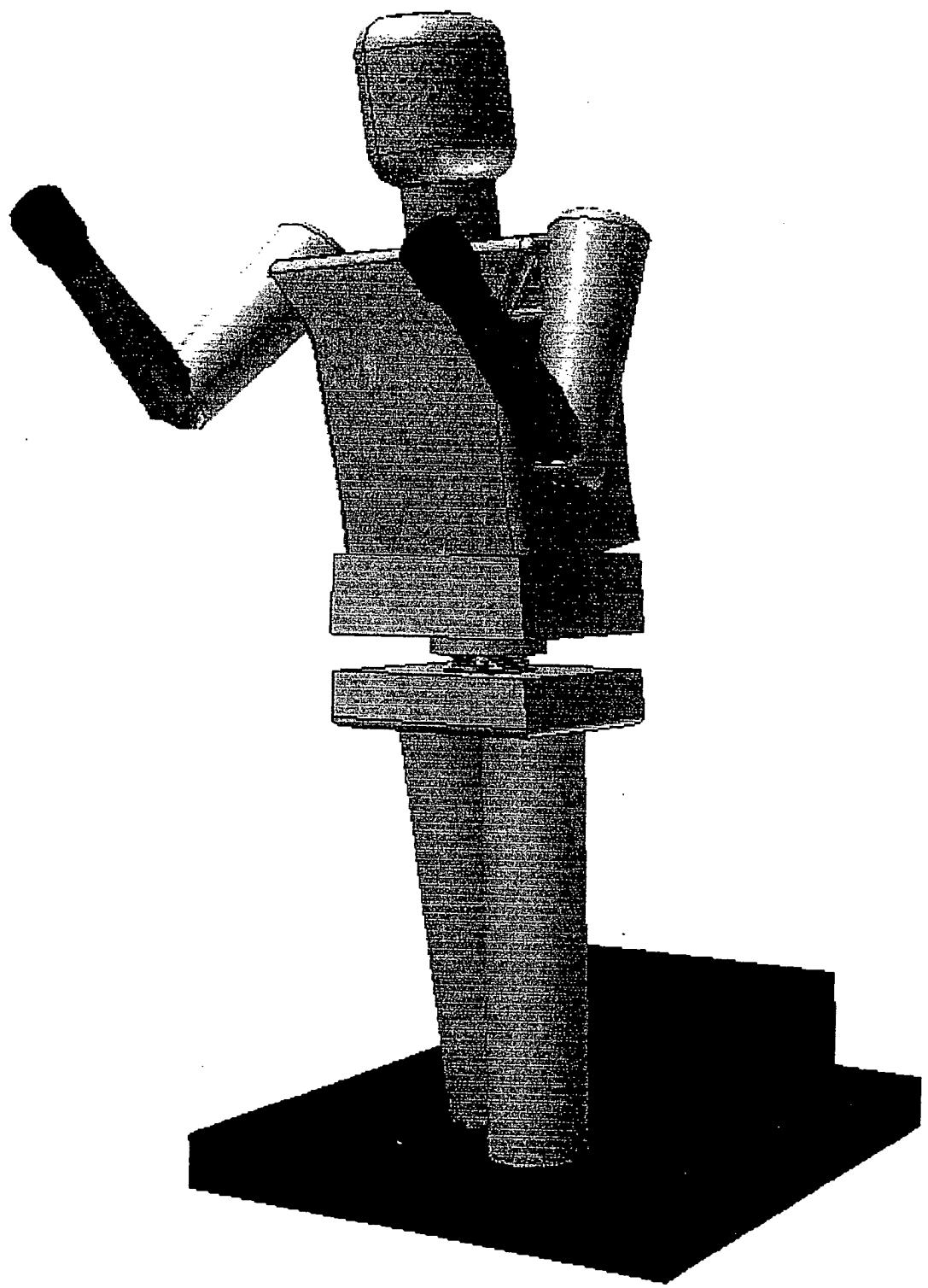


FIGURE 1B

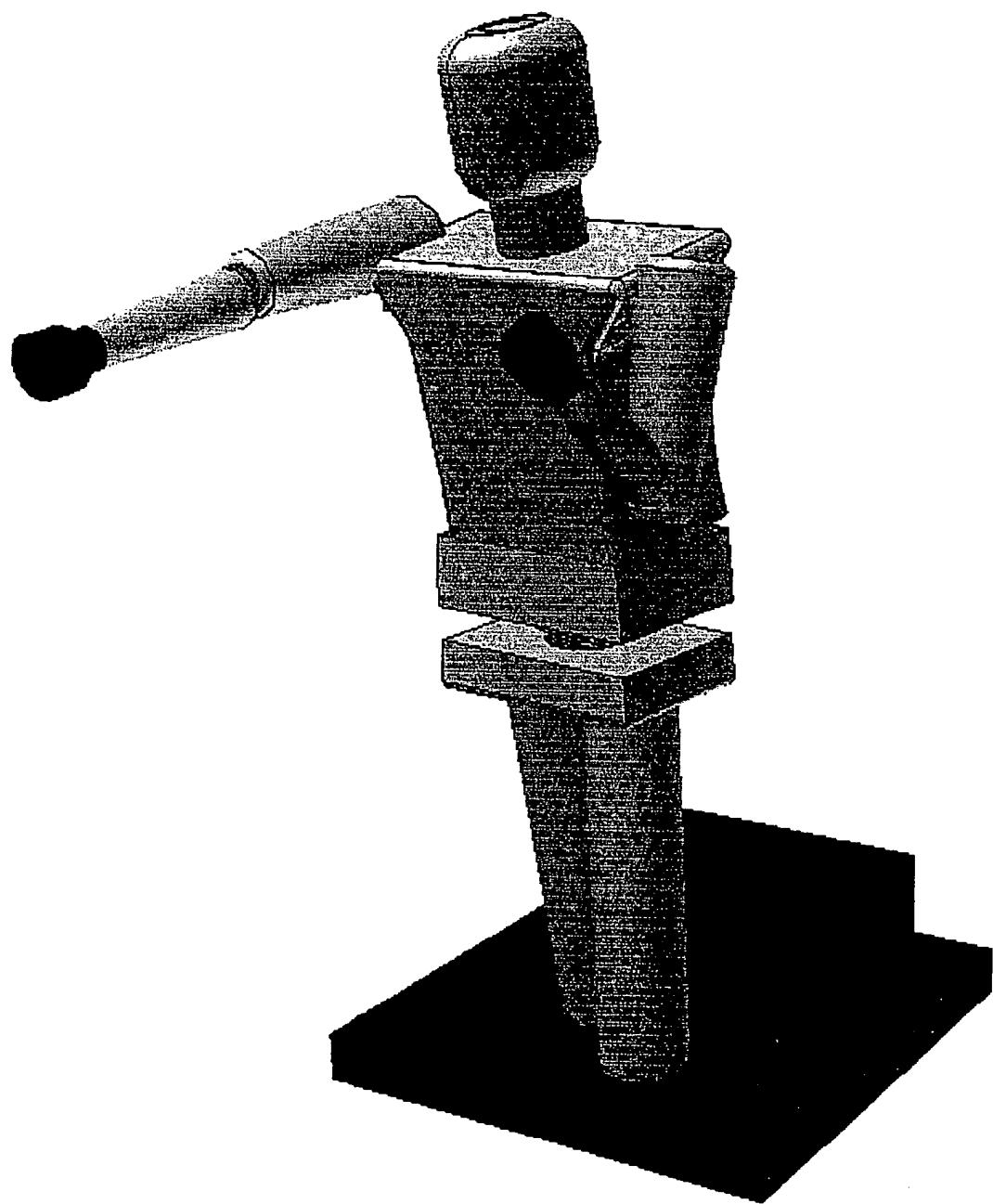


FIGURE 1C

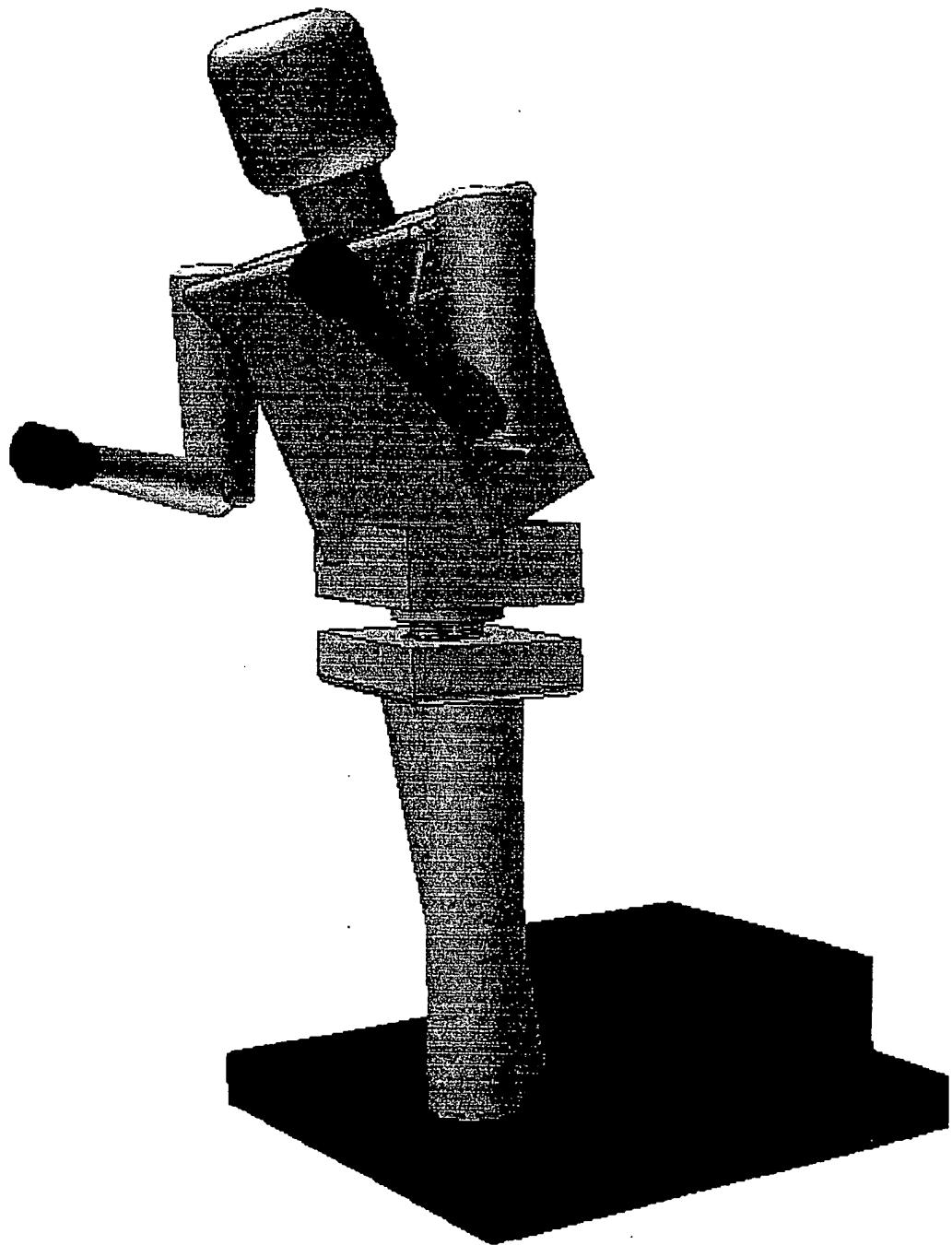


FIGURE 1D

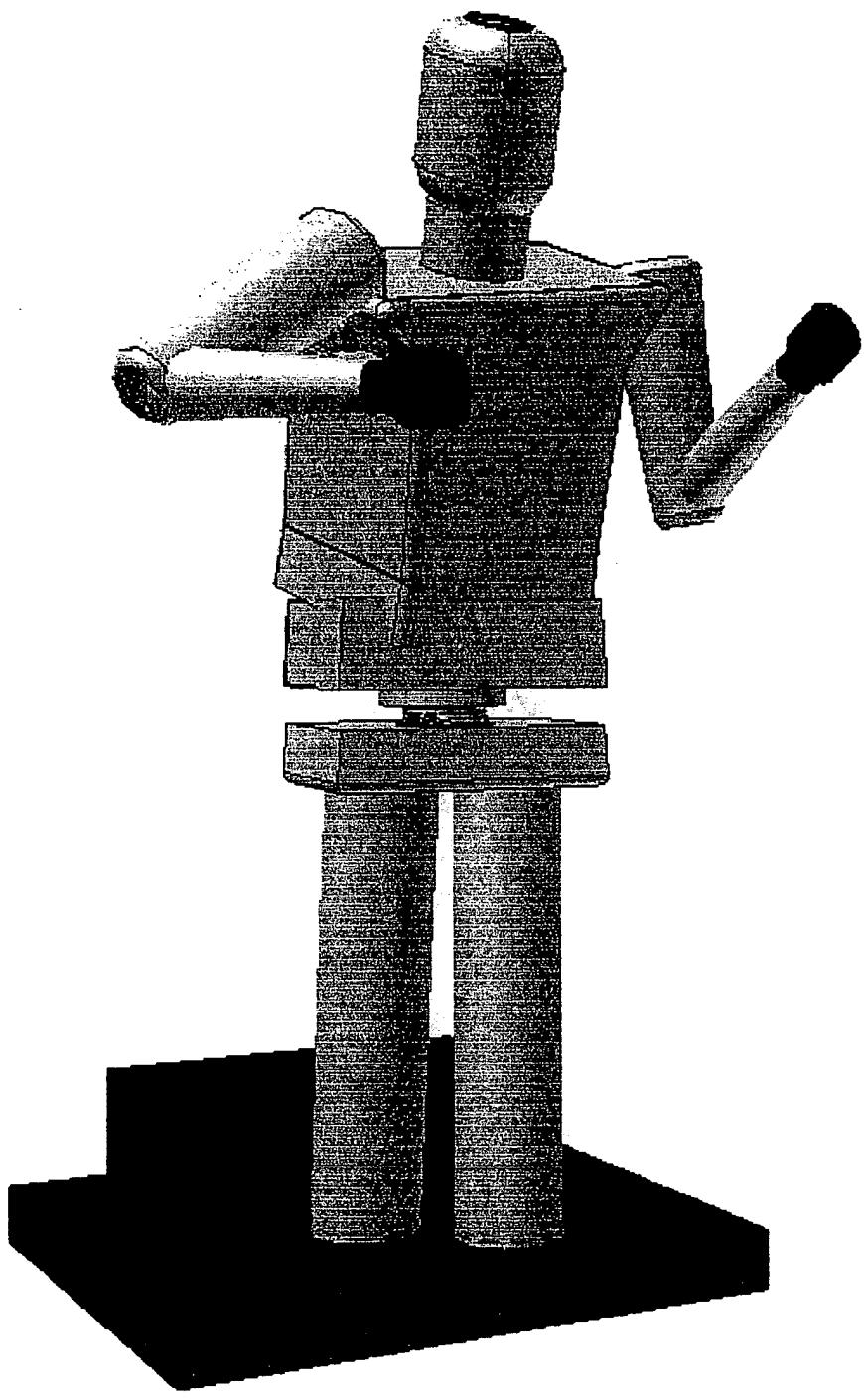
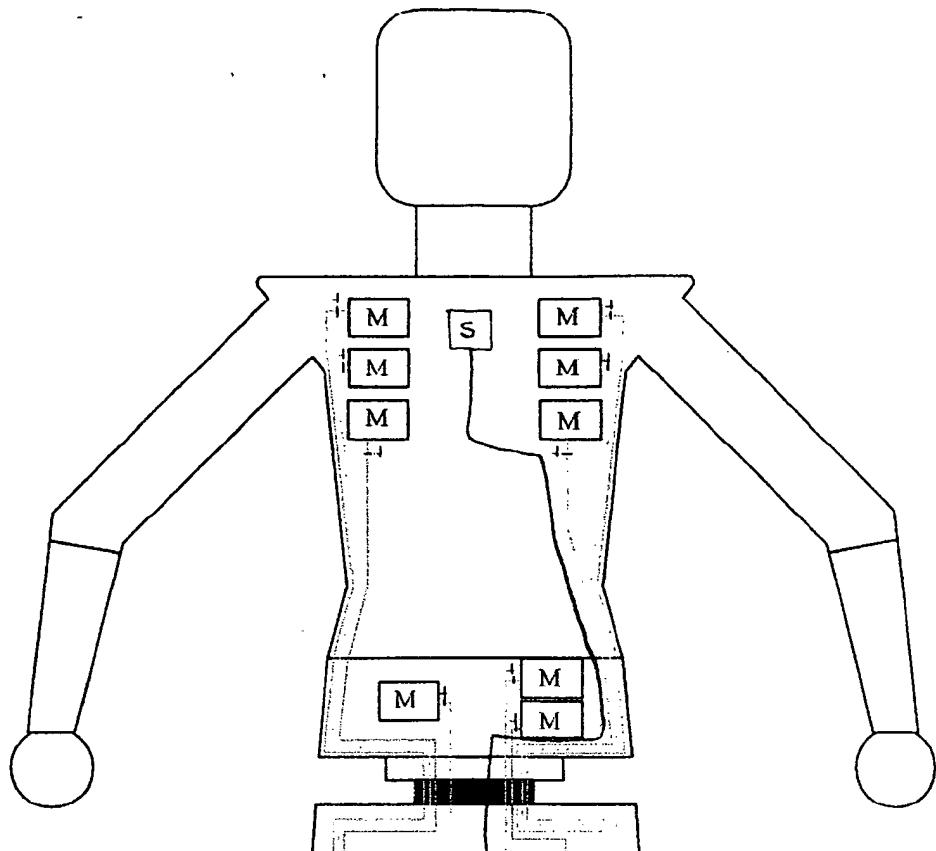


FIGURE 1E



Part Labels

9 DC motors M (12A max)

5 Control PCB

-1st Ro: push-out motion of right arm

Wt: waist twist

-2nd RA: shoulder and elbow motion
of right arm

-3rd Wss: side-to-side waist motion

Wfb: forward-backward waist motion

-4th Lo: push-out motion of left arm

-5th LA: shoulder and elbow motion
of left arm

1 Interface PCB

1 CPU-PCB

1 Power supply (w/cooling fan)

*Numbers on the start and finish of the
connections indicate the number of wires
in the particular band

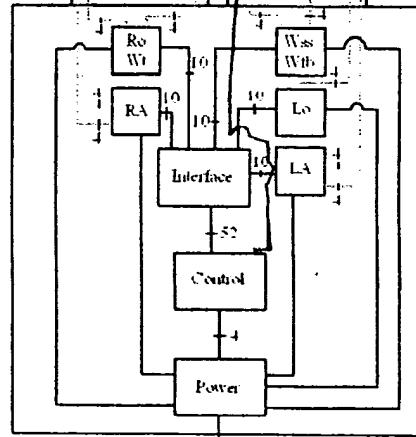


FIGURE 2

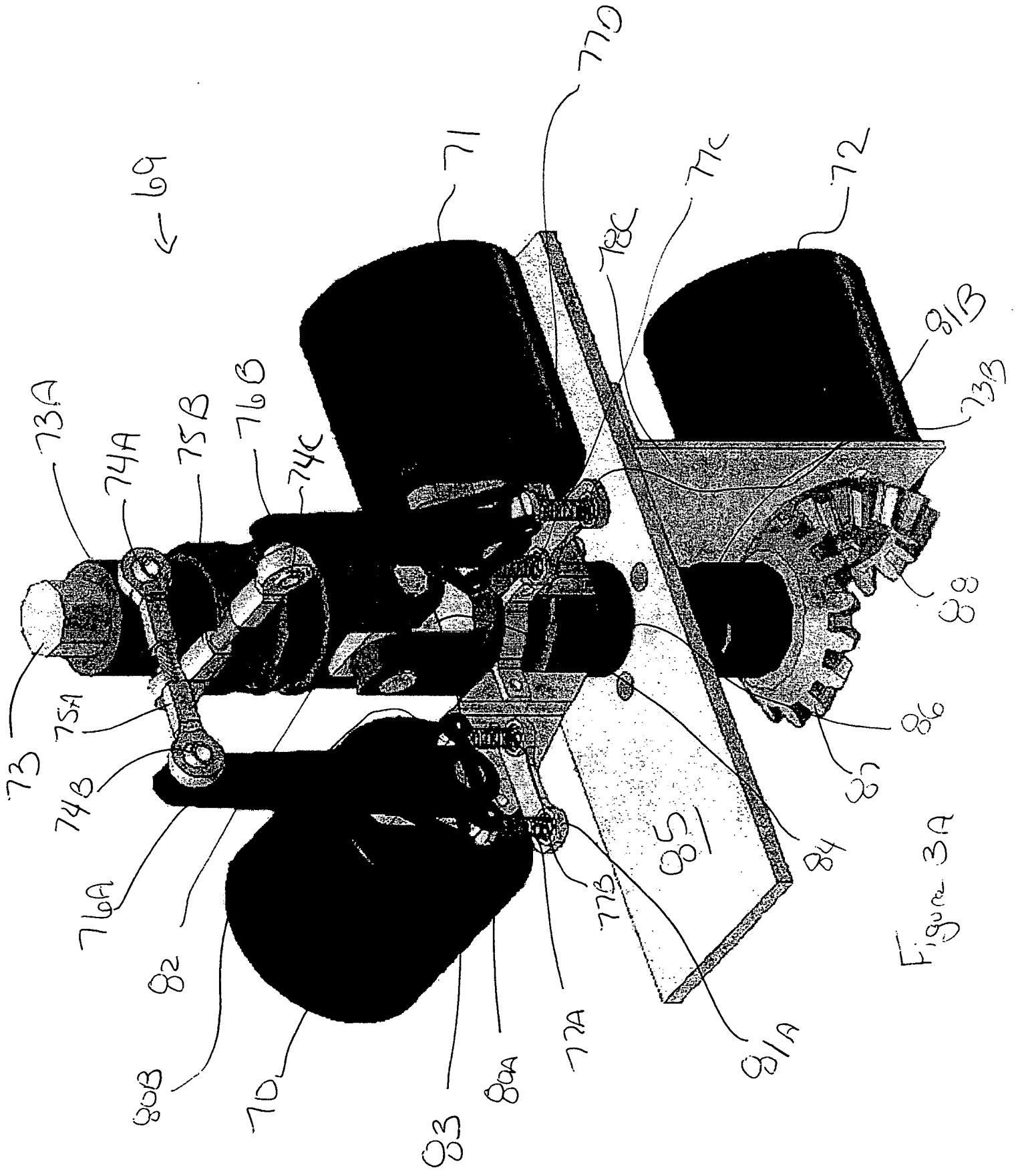
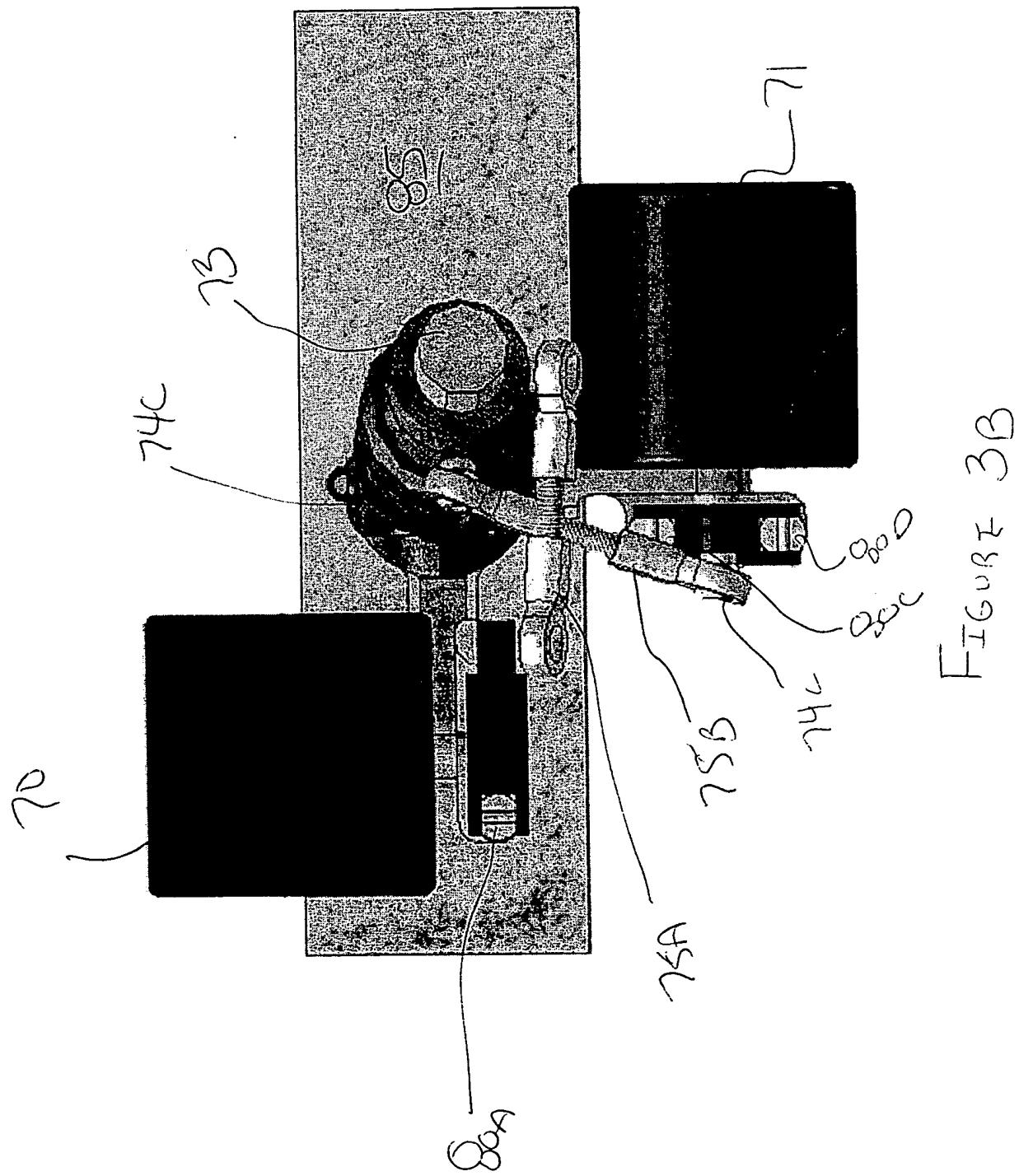


Figure 3A



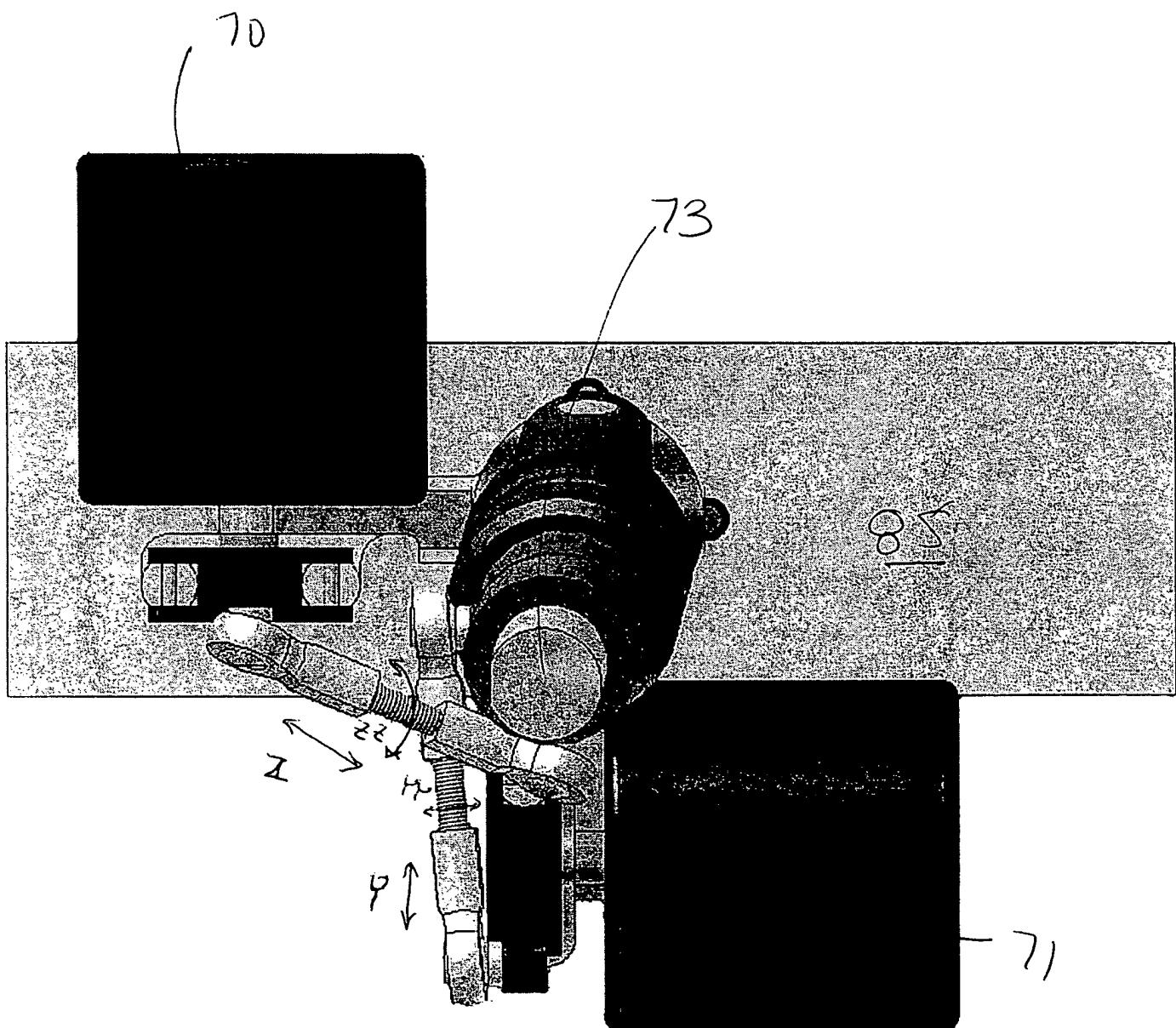


FIGURE 3C

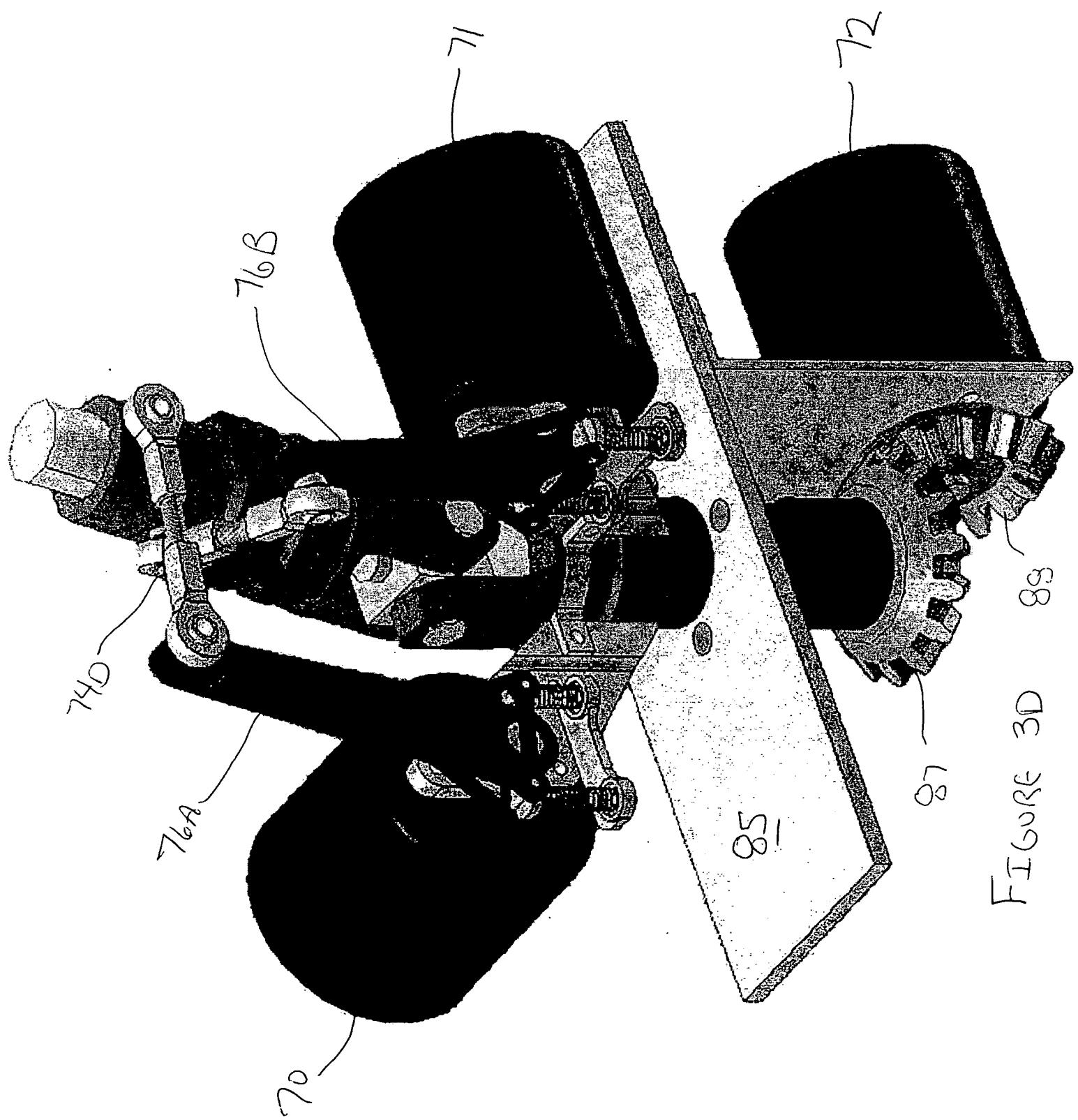


FIGURE 3D

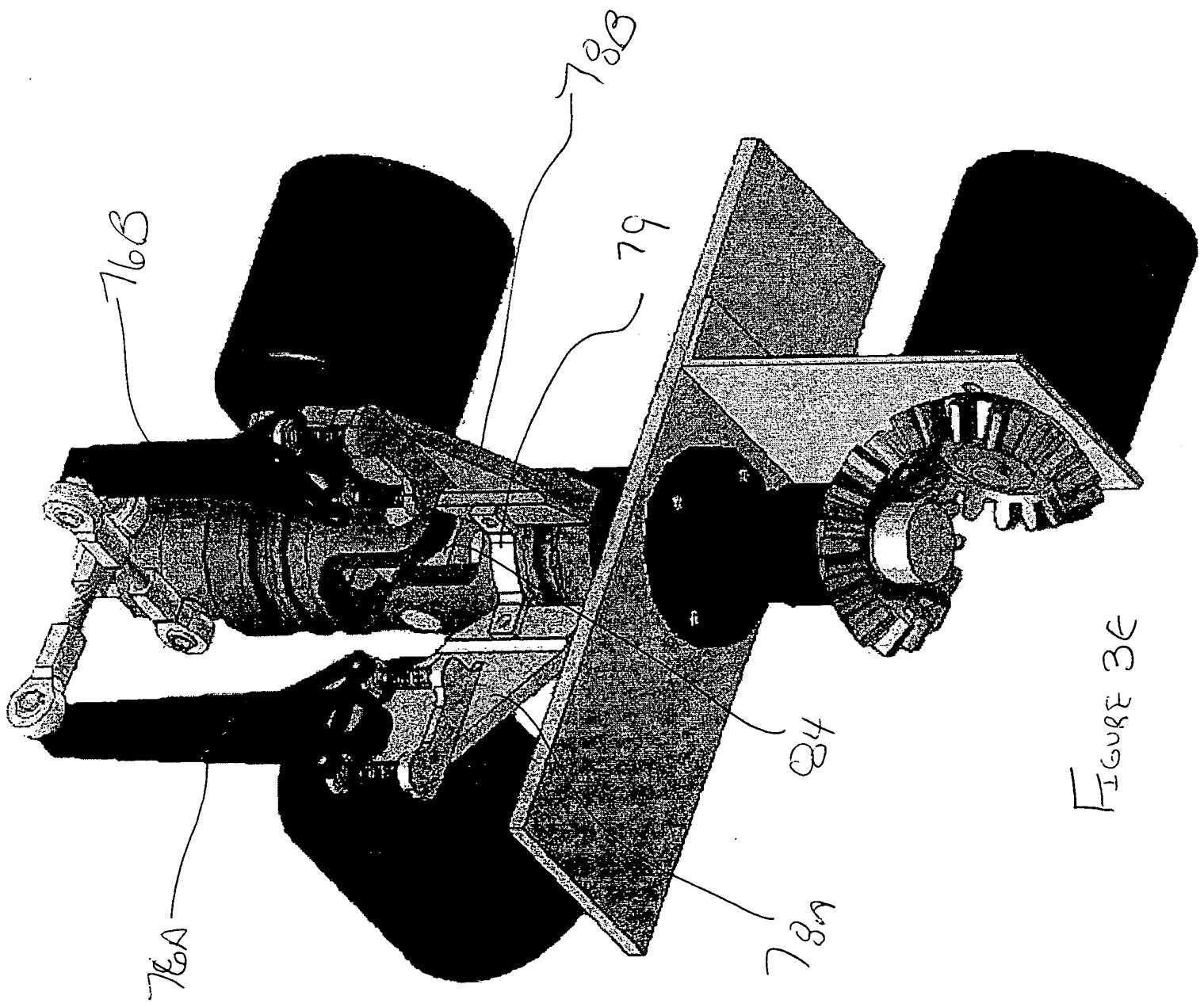
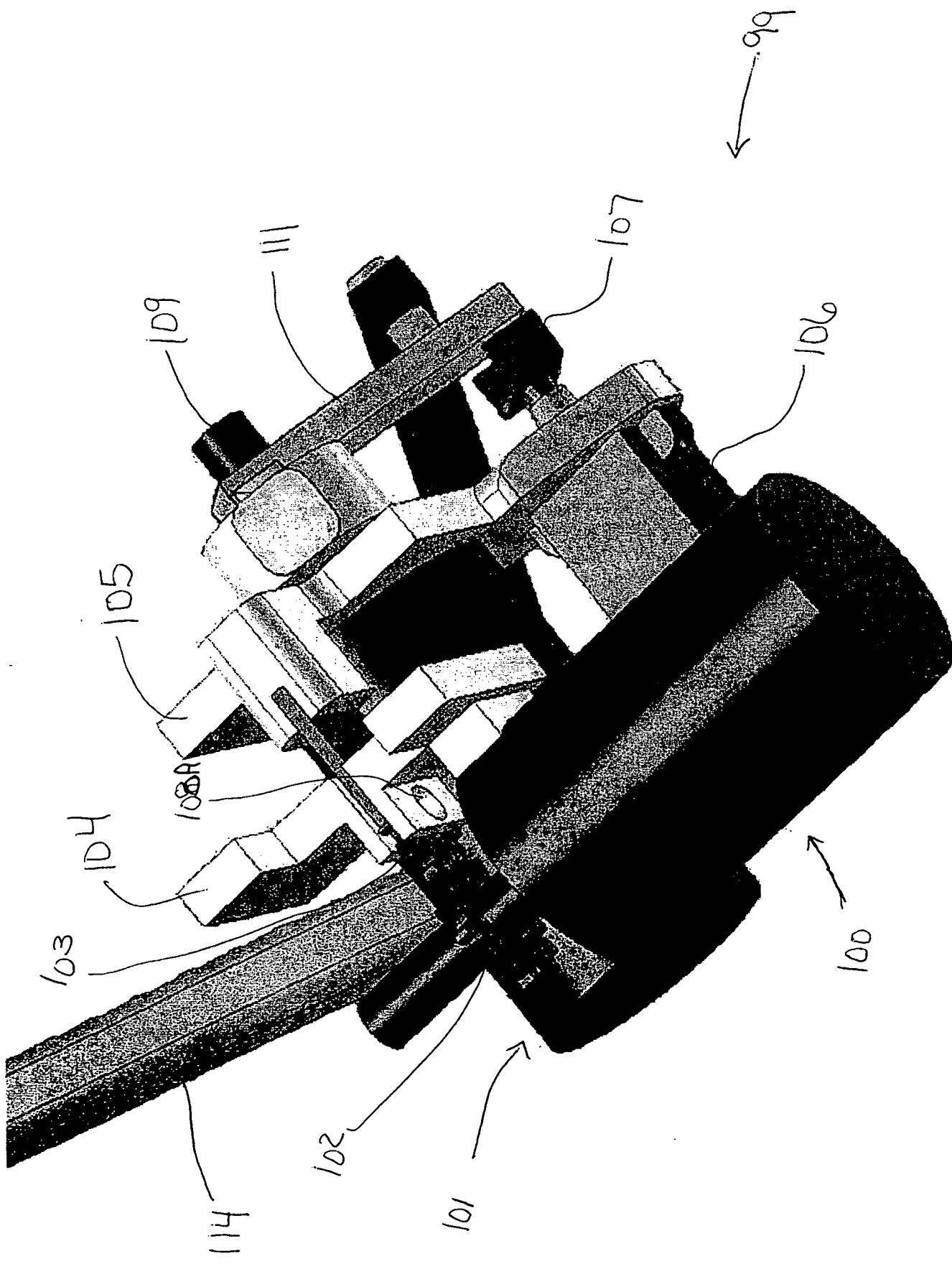


FIGURE 3C

FIGURE 4A



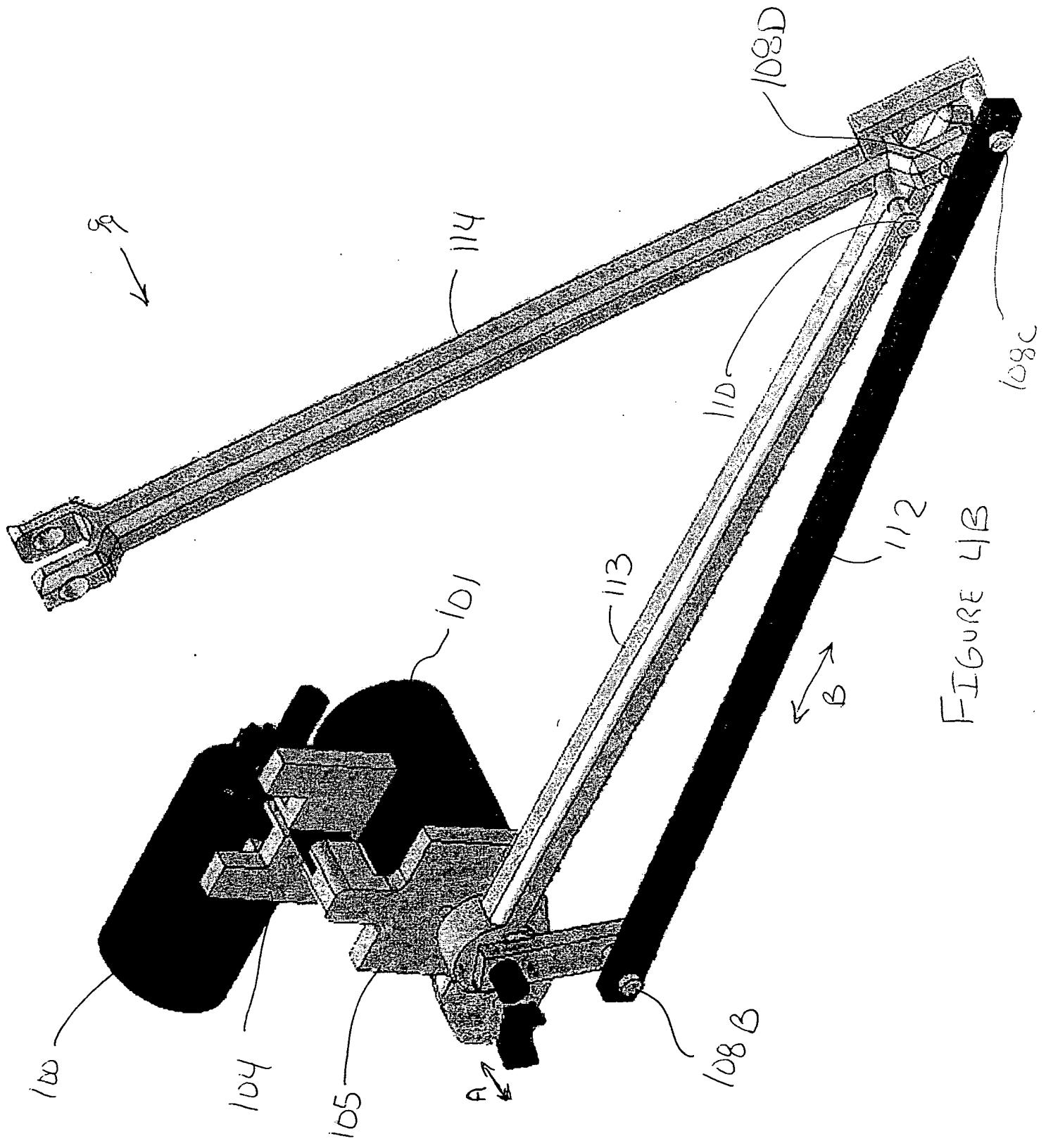


FIGURE LIB

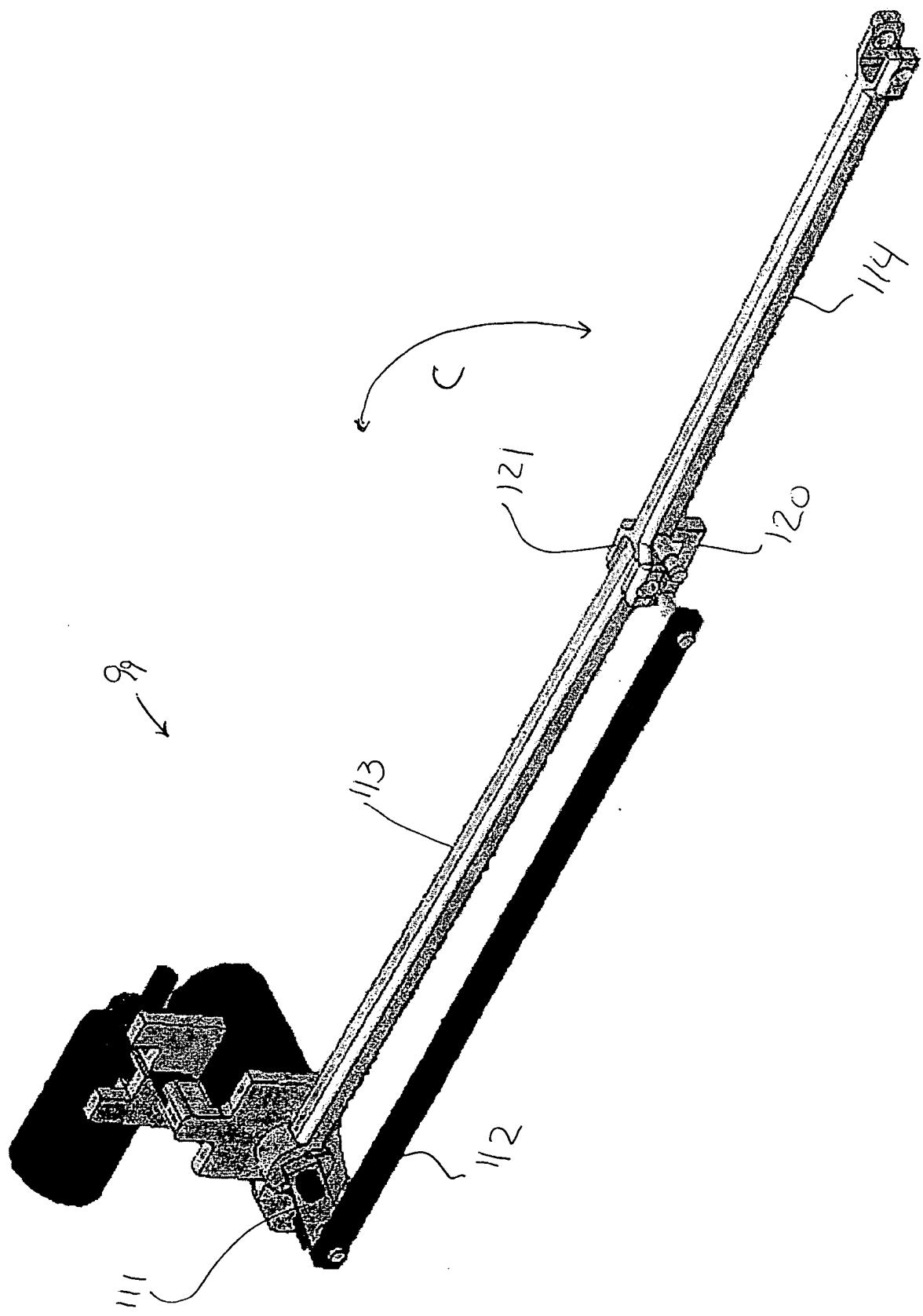


FIGURE 4C

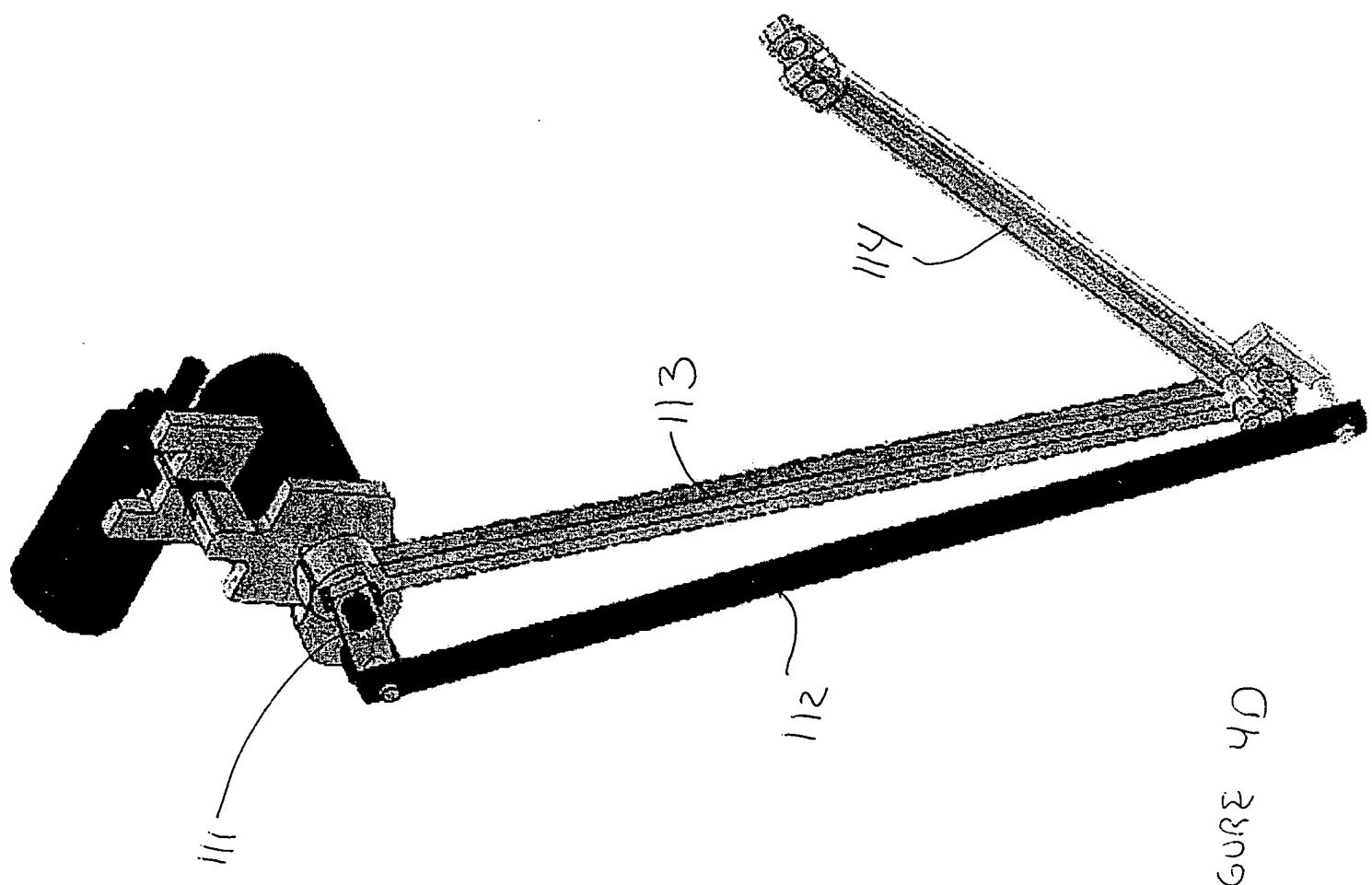


FIGURE 4D

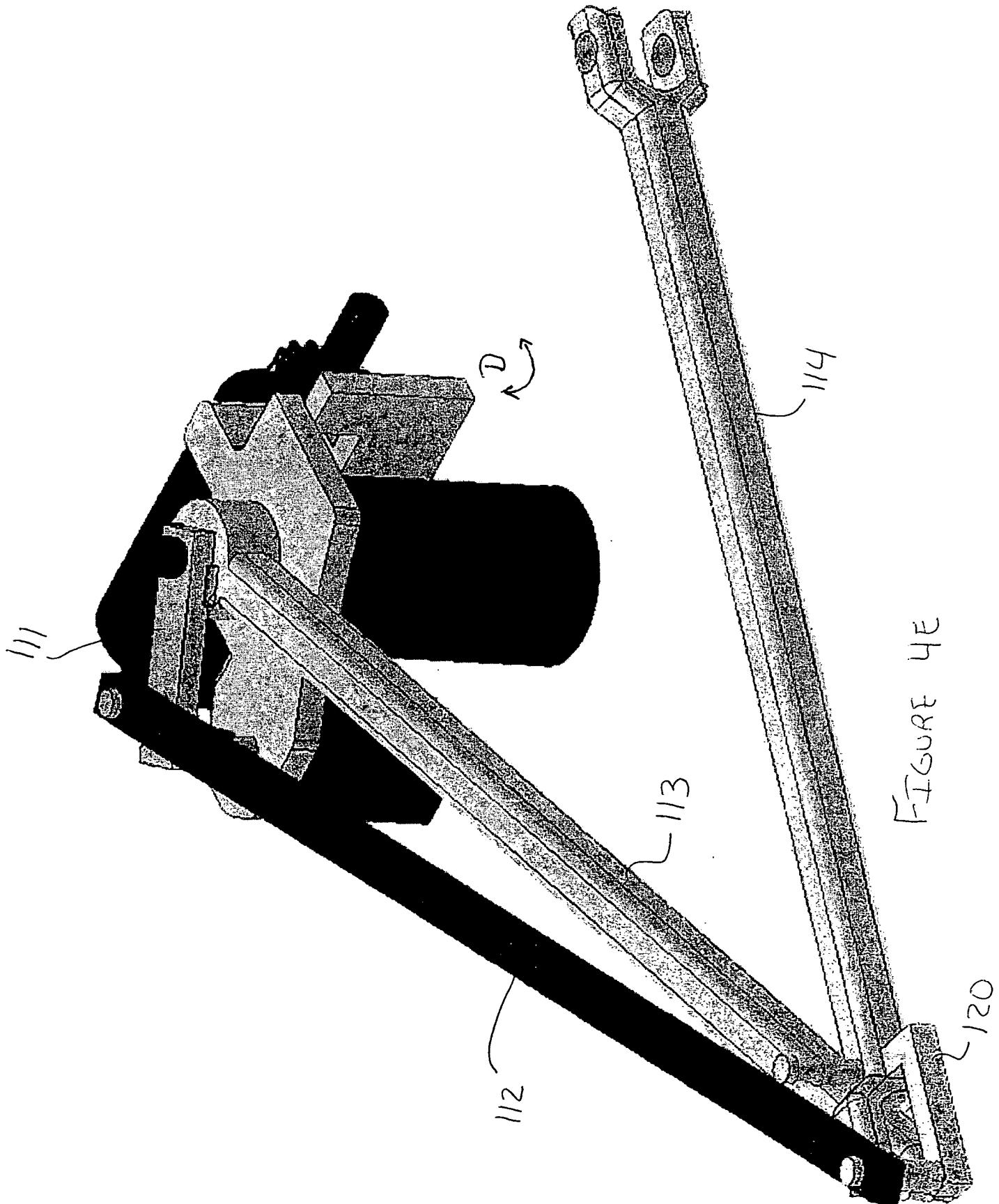


FIGURE 4E

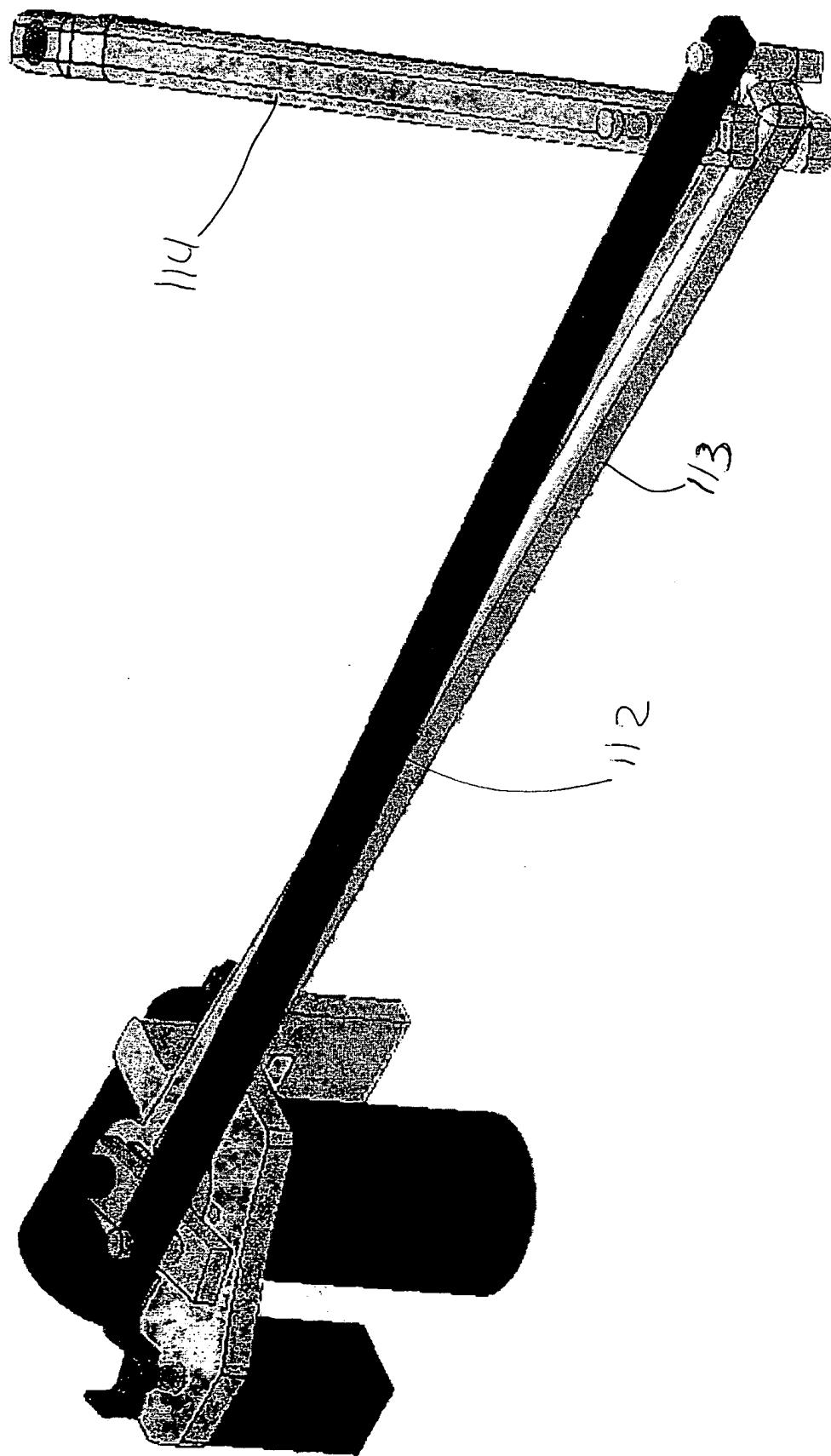


FIGURE 4F